

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/766,605A
Source: IFWB
Date Processed by STIC: 11-18-04

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 11/18/2004

PATENT APPLICATION: US/10/766,605A

TIME: 09:33:53

Input Set : A:\SBIO_0002D1.txt

Output Set: N:\CRF4\11182004\J766605A.raw

```

4 <110> APPLICANT: Chumakov, Peter and Chenchik, Alex
6 <120> TITLE OF INVENTION: Reporter Vectors for Gene Function Analysis
9 <130> FILE REFERENCE: SBIO/0002.D1
11 <140> CURRENT APPLICATION NUMBER: 10/766,605A
C--> 12 <141> CURRENT FILING DATE: 2004-01-27
14 <150> PRIOR APPLICATION NUMBER: 10/658,632
15 <151> PRIOR FILING DATE: 2003-08-09
17 <160> NUMBER OF SEQ ID NOS: 20
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 43
23 <212> TYPE: DNA
24 <213> ORGANISM: human
26 <220> FEATURE:
27 <221> NAME/KEY: promoter
28 <222> LOCATION: (1)...(7)
30 <221> NAME/KEY: misc_RNA
31 <222> LOCATION: (8)...(30)
32 <223> OTHER INFORMATION: n=a,t,g,c
W--> 34 <400> 1
W--> 35 ggacgagnnnn nnnnnnnnnnn nnnnnnnnnnn aattcatcta tgt 43
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 43
39 <212> TYPE: DNA
40 <213> ORGANISM: human
42 <220> FEATURE:
43 <221> NAME/KEY: misc_RNA
44 <222> LOCATION: (12)...(34)
45 <223> OTHER INFORMATION: n=a,t,g,c
47 <400> SEQUENCE: 2
W--> 48 cctgctccta gnnnnnnnnnn nnnnnnnnnnn nnnngtagat aca 43
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 59
52 <212> TYPE: DNA
53 <213> ORGANISM: human
55 <220> FEATURE:
56 <221> NAME/KEY: misc_RNA
57 <222> LOCATION: (7)...(53)
59 <400> SEQUENCE: 3
60 gatccggatg atctggatcc accaattcaa gagattggtg gatccagatc atctttttg 59
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 59
64 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

DATE: 11/18/2004

PATENT APPLICATION: US/10/766,605A

TIME: 09:33:53

Input Set : A:\SBIO_0002D1.txt

Output Set: N:\CRF4\11182004\J766605A.raw

```

65 <213> ORGANISM: human
67 <220> FEATURE:
68 <221> NAME/KEY: misc_RNA
69 <222> LOCATION: (3)...(59)
71 <400> SEQUENCE: 4
72 gcctactaga cctaggtggt taagttctct aaccacctag gtctagtaga aaaacttaa 59
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 75
76 <212> TYPE: DNA
77 <213> ORGANISM: human
79 <220> FEATURE:
80 <221> NAME/KEY: misc_RNA
81 <222> LOCATION: (7)...(69)
83 <400> SEQUENCE: 5
84 gatccgggtg atctggatct accaaggctt gttttcaaga gaaacaagtc ttggtggatc 60
85 cagatcatct ttttg 75
87 <210> SEQ ID NO: 6
88 <211> LENGTH: 69
89 <212> TYPE: DNA
90 <213> ORGANISM: human
92 <220> FEATURE:
93 <221> NAME/KEY: misc_RNA
94 <222> LOCATION: (3)...(59)
96 <400> SEQUENCE: 6
97 gccactaga cctagatggt tcgaaagttc tctttgttca gaaccactag gtctagtaga 60
98 aaaacttaa 69
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 30
102 <212> TYPE: DNA
103 <213> ORGANISM: human
105 <220> FEATURE:
106 <221> NAME/KEY: unsure
107 <222> LOCATION: (9)...(21)
108 <223> OTHER INFORMATION: n=a,t,g,c
110 <400> SEQUENCE: 7
W--> 111 tgggaaaann nnnnnnnnnn ntttttagag 30
113 <210> SEQ ID NO: 8
114 <211> LENGTH: 30
115 <212> TYPE: DNA
116 <213> ORGANISM: human
118 <220> FEATURE:
119 <221> NAME/KEY: unsure
120 <222> LOCATION: (13)...(25)
121 <223> OTHER INFORMATION: n=a,t,g,c
123 <400> SEQUENCE: 8
W--> 124 accctttttt tcnnnnnnnn nnnnatctc 30
126 <210> SEQ ID NO: 9
127 <211> LENGTH: 31
128 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/766,605A

DATE: 11/18/2004

TIME: 09:33:53

Input Set : A:\SBIO_0002D1.txt

Output Set: N:\CRF4\11182004\J766605A.raw

```

129 <213> ORGANISM: human
131 <220> FEATURE:
132 <221> NAME/KEY: misc_RNA
133 <222> LOCATION: (6)...(31)
134 <223> OTHER INFORMATION: Viral vector sequence
136 <400> SEQUENCE: 9
137 aaaggatgat ctggatccac caagacttgt t 31
139 <210> SEQ ID NO: 10
140 <211> LENGTH: 31
141 <212> TYPE: DNA
142 <213> ORGANISM: human
144 <220> FEATURE:
145 <221> NAME/KEY: misc_RNA
146 <222> LOCATION: (2)...(27)
147 <223> OTHER INFORMATION: Viral vector sequence
149 <400> SEQUENCE: 10
150 ctactagacc taggtggttc tgaacaaaaa a 31
152 <210> SEQ ID NO: 11
153 <211> LENGTH: 59
154 <212> TYPE: DNA
155 <213> ORGANISM: human
157 <220> FEATURE:
158 <221> NAME/KEY: misc_RNA
159 <222> LOCATION: (17)...(42)
160 <223> OTHER INFORMATION: n=a,t,g,c
162 <400> SEQUENCE: 11
W--> 163 agcagaagac taaaagnnnn nnnnnnnnnn nnnnnnnnnn nnttttatgt cttctacga 59
165 <210> SEQ ID NO: 12
166 <211> LENGTH: 19
167 <212> TYPE: DNA
168 <213> ORGANISM: human
170 <220> FEATURE:
171 <221> NAME/KEY: primer_bind
172 <222> LOCATION: (11)...(19)
173 <223> OTHER INFORMATION: Viral vector sequence
175 <400> SEQUENCE: 12
176 acgcaggtgt agcagaaga 19
178 <210> SEQ ID NO: 13
179 <211> LENGTH: 59
180 <212> TYPE: DNA
181 <213> ORGANISM: human
183 <220> FEATURE:
184 <221> NAME/KEY: misc_RNA
185 <222> LOCATION: (17)...(42)
186 <223> OTHER INFORMATION: n=a,t,g,c
188 <400> SEQUENCE: 13
W--> 189 agcagaagac taaaagnnnn nnnnnnnnnn nnnnnnnnnn nnttttatgt cttctacga 59
191 <210> SEQ ID NO: 14
192 <211> LENGTH: 20

```

RAW SEQUENCE LISTING

DATE: 11/18/2004

PATENT APPLICATION: US/10/766,605A

TIME: 09:33:53

Input Set : A:\SBIO_0002D1.txt

Output Set: N:\CRF4\11182004\J766605A.raw

```

193 <212> TYPE: DNA
194 <213> ORGANISM: human
196 <220> FEATURE:
197 <221> NAME/KEY: primer_bind
198 <222> LOCATION: (1)...(11)
199 <223> OTHER INFORMATION: Viral vector sequence
201 <400> SEQUENCE: 14
202 cagaagatgc tcacgacgct 20
204 <210> SEQ ID NO: 15
205 <211> LENGTH: 78
206 <212> TYPE: DNA
207 <213> ORGANISM: human
209 <220> FEATURE:
210 <221> NAME/KEY: misc_RNA
211 <222> LOCATION: (27)...(52)
212 <223> OTHER INFORMATION: n=a,t,g,c
214 <400> SEQUENCE: 15
W--> 215 acgcagggtgt agcagaagac taaaagnnnnn nnnnnnnnnnn nnnnnnnnnn nnttttatgt 60
216 cttctacgag tgctgcga 78
218 <210> SEQ ID NO: 16
219 <211> LENGTH: 78
220 <212> TYPE: DNA
221 <213> ORGANISM: human
223 <220> FEATURE:
224 <221> NAME/KEY: misc_RNA
225 <222> LOCATION: (27)...(52)
226 <223> OTHER INFORMATION: n=a,t,g,c
228 <400> SEQUENCE: 16
W--> 229 tgcgtccaca tgcgtattctg attttcnnnnn nnnnnnnnnnn nnnnnnnnnn nnaaaataca 60
230 gaagatgctc acgacgct 78
232 <210> SEQ ID NO: 17
233 <211> LENGTH: 30
234 <212> TYPE: DNA
235 <213> ORGANISM: human
237 <220> FEATURE:
238 <221> NAME/KEY: misc_RNA
239 <222> LOCATION: (5)...(30)
240 <223> OTHER INFORMATION: n=a,t,g,c
242 <400> SEQUENCE: 17
W--> 243 aaagnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 30
245 <210> SEQ ID NO: 18
246 <211> LENGTH: 30
247 <212> TYPE: DNA
248 <213> ORGANISM: human
250 <220> FEATURE:
251 <221> NAME/KEY: misc_RNA
252 <222> LOCATION: (1)...(26)
253 <223> OTHER INFORMATION: n=a,t,g,c
255 <400> SEQUENCE: 18

```

RAW SEQUENCE LISTING

DATE: 11/18/2004

PATENT APPLICATION: US/10/766,605A

TIME: 09:33:53

Input Set : A:\SBIO_0002D1.txt

Output Set: N:\CRF4\11182004\J766605A.raw

W--> 256 nnnnnnnnnn nnnnnnnnnn nnnnnnaaaa 30
258 <210> SEQ ID NO: 19
259 <211> LENGTH: 44
260 <212> TYPE: DNA
261 <213> ORGANISM: human
263 <220> FEATURE:
264 <221> NAME/KEY: mRNA
265 <222> LOCATION: (10)...(35)
266 <223> OTHER INFORMATION: n=a,t,g,c
268 <400> SEQUENCE: 19

W--> 269 tgggaaaagn nnnnnnnnnn nnnnnnnnnn nnnnttttt agag 44
271 <210> SEQ ID NO: 20
272 <211> LENGTH: 44
273 <212> TYPE: DNA
274 <213> ORGANISM: human
276 <220> FEATURE:
277 <221> NAME/KEY: misc_RNA
278 <222> LOCATION: (10)...(35)
279 <223> OTHER INFORMATION: n=a,t,g,c
281 <400> SEQUENCE: 20

W--> 282 acccttttcn nnnnnnnnnn nnnnnnnnnn nnnnaaaaa tctc 44

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/766,605A

DATE: 11/18/2004
TIME: 09:33:54

Input Set : A:\SBIO_0002D1.txt
Output Set: N:\CRF4\11182004\J766605A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28 ✓
Seq#:1; N Pos. 29,30 ✓
Seq#:2; N Pos. 12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31 ✓
Seq#:2; N Pos. 32,33,34 ✓
Seq#:7; N Pos. 9,10,11,12,13,14,15,16,17,18,19,20,21 ✓
Seq#:8; N Pos. 13,14,15,16,17,18,19,20,21,22,23,24,25 ✓
Seq#:11; N Pos. 17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36 ✓
Seq#:11; N Pos. 37,38,39,40,41,42 ✓
Seq#:13; N Pos. 17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36 ✓
Seq#:13; N Pos. 37,38,39,40,41,42 ✓
Seq#:15; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46 ✓
Seq#:15; N Pos. 47,48,49,50,51,52 ✓
Seq#:16; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46 ✓
Seq#:16; N Pos. 47,48,49,50,51,52 ✓
Seq#:17; N Pos. 5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25 ✓
Seq#:17; N Pos. 26,27,28,29,30 ✓
Seq#:18; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 ✓
Seq#:18; N Pos. 24,25,26 ✓
Seq#:19; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29 ✓
Seq#:19; N Pos. 30,31,32,33,34,35 ✓
Seq#:20; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29 ✓
Seq#:20; N Pos. 30,31,32,33,34,35 ✓

VERIFICATION SUMMARY

DATE: 11/18/2004

PATENT APPLICATION: US/10/766,605A

TIME: 09:33:54

Input Set : A:\SBIO_0002D1.txt

Output Set: N:\CRF4\11182004\J766605A.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:34 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:35 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:48 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0